



**Massachusetts Bay  
Transportation Authority**

Proposal for New Orange  
and Red Line Vehicles  
MBTA "RFP No. CAP 27-10"

Submitted by:

**CNR MA**

## **Part A Price Proposal**

**COPY**



**Volume 1 of 1**

May 15, 2014



Name: Yanbin Yu  
Position: Treasurer  
Telephone: 1-212-704-6776  
Email: [yuyanbin@chinacnr.com](mailto:yuyanbin@chinacnr.com)

Date: May 15, 2014

Our Reference: CNRMA-140512-UB226M-00001

Massachusetts Bay Transportation Authority  
Materials Management Department  
10 Park Plaza, Room 2810  
Boston, Massachusetts 02116

Attention: Mr. Christopher Carven / Project Coordinator

**Subject: Cover Letter - RFP No. CAP 27-10 New Orange and Red Line Vehicles**

Dear Mr. Carven,

CNR MA Corporation (“CNR MA”), a Massachusetts corporation, is pleased to submit our proposal related to the RFP No. CAP 27-10 New Orange and Red Line Vehicles.

CNR MA is a joint venture established by China CNR Corporation Limited (“CNR”) and CNR Changchun Railway Vehicles Co., Ltd. (“CNR CRC”). CNR, with worldwide sales of US\$17 billion dollars and 90,000 employees, is one of the largest rolling stock companies, including 27 subsidiaries, in the world. CNR CRC, established in 1954, is the largest rolling stock manufacturer under CNR with supply contracts in over 13 countries and districts including Brazil, Argentina, Saudi Arabia, Thailand, Australia, New Zealand and Hong Kong, among others. Please note that CNR MA, CNR, and CNR CRC will be referred to hereinafter as “CNR”.

CNR is committed to developing a rolling stock manufacturing hub in Springfield, and with an investment of more than US\$60 million, making Massachusetts the center of our North American transportation business. CNR has entered into an Option Agreement to purchase 40 acres of land in Springfield where CNR will build its permanent assembly/manufacturing facility. Over the course of building out this facility, CNR anticipates incrementally creating minimum 150 jobs at the plant, in addition to nearly 100 construction jobs to build the plant and surrounding improvements.

CNR believes that in choosing Springfield as its North American hub, it will enjoy a number of important advantages as it expands its business here. Springfield is strategically located near large metropolitan populations on the East Coast of the United States with ready access to highway, rail, and air transportation to support the operations. With a robust number of colleges and universities,

Western Massachusetts offers the type of intellectual capital needed for complex engineering work to be completed. CNR has already met with representatives from local vocational and technical training programs and anticipates reciprocal benefits from working with local students who may be trained for future jobs at the facility.

Additionally, local political, business and community leaders have enthusiastically embraced the potential for Springfield to not only create a vibrant economic engine to the area, but are excited that the city will return to its historic manufacturing roots. The Wason Manufacturing Company was among the first rail car facilities in the U.S. concentrating on manufacturing streetcars and electrified railway cars. With a unanimous endorsement from the Springfield City Council supporting CNR's site plans, and a letter of support from The East Springfield Neighborhood Council pledging cooperation and collaboration, CNR continues to foster relationships and garner support to re-establish a facility in Springfield.

*Here are some highlights of our proposal:*

- *We will construct a permanent manufacturing facility staffed with minimum 150 employees in Springfield, MA.*
- *More than US\$60 million dollar investment will be made to construct and develop a manufacturing facility. The construction work thereon will create nearly 100 direct construction jobs during a period of 15 months.*
- *Pre-award M/WBE outreach workshops were held, and we will continue to work with minority groups to reach our target of 16% for the Base Award Contract and 15% for the Total Contract. This target includes 30% of the total construction contract amount that will be subcontracted to unutilized small business enterprises such as M/WBE.*
- *We have hired an U.S. experienced Project Manager, and will maximize the employment of professional experts familiar with American practices and standards for successful execution of the contract.*

We welcome this opportunity to establish a rolling stock manufacturing base in Springfield and grow together with the people of Western Massachusetts.

Our team is uniquely qualified to lead this project to success, supported by the presence of Sojitz Corporation of America, with over 35 years of experience in sales, marketing, and project delivery for the world's top manufacturers. Sojitz, together with the support of various individual experts in the industry, has been a key to the successful execution of such projects.

Mr. Yanbin Yu is fully authorized to sign the proposal. Attached herewith please find (1) a U.S. notarized Secretary Certificate certifying to the board minutes of CNR dated May 4, 2014 authorizing CNR's participation as a joint venture partner and shareholder of CNR MA in submitting the proposal to design, manufacture and deliver the orange and red line vehicles project



of the MBTA (the “MBTA Project”), authorizing CNR MA to participate in the MBTA Project, and authorizing Mr. Yu to sign and submit the proposal on behalf of CNR MA; (2) a U.S. notarized Secretary Certificate certifying to the board minutes of CNR CRC dated May 5, 2014 authorizing CNR CRC’s participation as a joint venture partner and shareholder of CNR MA in submitting the proposal related to the MBTA Project, authorizing CNR MA to participate in the MBTA Project, and authorizing Mr. Yu to sign and submit the proposal on behalf of CNR MA; (3) a U.S. notarized Secretary Certificate certifying to the board resolution of CNR MA dated May 8, 2014 authorizing CNR MA’s participation in the MBTA Project and authorizing Mr. Yu to sign and submit the proposal on behalf of CNR MA.

The Offeror’s name, post office address, telephone number, fax number are set forth as below:

CNR MA Corporation  
c/o Dai Iwama  
Sojitz Corporation of America  
1120 Avenue of the Americas  
New York, NY 10036  
Tel +1 212 704-6776  
Fax +1 212 704-6880

The authorized person’s name, title, telephone number, email address are set forth as below:

Yanbin Yu  
Treasurer of CNR MA Corporation  
Telephone number (China): +86 10 51897284  
Telephone number (US): +1 212 704 6776  
Email address: [yuyanbin@chinacnr.com](mailto:yuyanbin@chinacnr.com)

For the purpose of facilitating and expediting communications, Mr. Dai Iwama - Associate Director of Sojitz Corporation of America will serve as our primary point of contact for CNR during the evaluation phase of this proposal. Therefore, for any questions on the proposal, please direct them to him at 1120 Avenue of the Americas, New York, NY 10036, Phone 212-704-6776, Fax 212-704-6880 or [iwama.daisuke@sojitz.com](mailto:iwama.daisuke@sojitz.com).

Truly yours,

Yanbin Yu, Treasurer  
CNR MA Corporation

**SECRETARY'S CERTIFICATE**

The undersigned hereby certifies that he is the duly appointed and qualified Secretary of CNR MA Corporation, a corporation incorporated under the laws of the Commonwealth of Massachusetts (the "Corporation"), and that as such, is authorized to execute this Certificate on behalf of the Corporation and further certifies that attached hereto as Exhibit A is a true and complete copy of the resolutions, duly adopted by the Board of Directors of the Corporation on May 8, 2014. Such resolutions are in full force and effect on and as of the date hereof, and have not been amended, altered, revoked or rescinded, and such resolutions are filed with the records of the Board of Directors.

IN WITNESS WHEREOF, the undersigned has caused this Certificate to be signed on behalf of the Corporation this tenth day of May, 2014.



Chuanhe Zhou  
Secretary, CNR MA Corporation

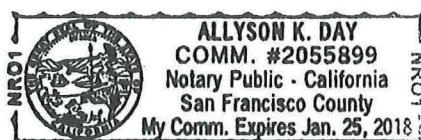
STATE OF CALIFORNIA  
COUNTY OF SAN FRANCISCO

On the 10 day of May in the year 2014 before me, the undersigned, personally appeared Chuanhe Zhou, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Witness my hand and official seal.

  
\_\_\_\_\_  
Notary Public  
Printed Name: Allyson K. Day  
My Commission Expires: 1/25/18



**Exhibit A****CNR MA Corporation****Written Consent of the Board of Directors  
in Lieu of Meeting**

pursuant to Chapter 156D § 8.21 of the General Laws of Massachusetts

As of May 8, 2014

The undersigned, being all the members of the board of directors (the “Board”) of CNR MA Corporation, a corporation incorporated under the laws of the Commonwealth of Massachusetts (the “Corporation”), consent to and authorize the adoption of the resolutions by the Board which appear below.

WHEREAS, the Corporation has been established as a joint venture between China CNR Corporation Limited, a corporation incorporated under the laws of the People’s Republic of China (“CNR”), and CNR Changchun Railway Vehicles Co., Ltd., a corporation incorporated under the laws of the People’s Republic of China (“CNR CRC”);

WHEREAS, the Corporation shall be the offeror for the Massachusetts Bay Transportation Authority’s Request for Proposal No. CAP 27-10 New Orange and Red Line Vehicles procurement project (the “Project”);

WHEREAS, CNR and CNR CRC have authorized the Corporation and the Board to appoint Mr. Xiwei Lu and Mr. Yanbin Yu (collectively, the “Corporation Officers”) to sign, execute and submit, on behalf of the Corporation, PART A PRICE PROPOSAL and PART B TECHNICAL PROPOSAL AND STATEMENTS AND CERTIFICATIONS REGARDING ELIGIBILITY (together, the “Proposal”) of the Project as well as all other documents related to the Proposal or the Project (collectively, the “MBTA Documents”); and

WHEREAS, the Corporation desires to authorize the Corporation Officers, or either one of them acting singly, to sign and submit to Massachusetts Bay Transportation Authority (the “MBTA”) the MBTA Documents, including, but not limited to, the Proposal for the Project .

NOW, THEREFORE, be it RESOLVED, that the Board approves and authorizes the Corporation’s participation in the Project;

Further Resolved, that, the Board authorizes the Corporation Officers, or either of them acting singly, to sign and submit to the MBTA the MBTA Documents, including, but not limited to, the Proposal for the Project, in such form, for such proposed prices and upon such other terms as such officer or officers determine appropriate and in the best interests of the Corporation, and to take all other actions in connection with the Proposal or the Project as

such officers deem necessary or appropriate;

Further Resolved, that, the Board approves and authorizes the Corporation Officers and agents of the Corporation to take, or cause to be taken, such other actions and to execute and deliver, or cause to be executed and delivered, such other documents, which he or they may determine are necessary or appropriate in connection with the Proposal and the Project, and all actions heretofore taken by the Corporation Officers and agents of the Corporation in connection with the subject of the foregoing resolutions be, and each of them hereby is approved, ratified and confirmed in all respects.

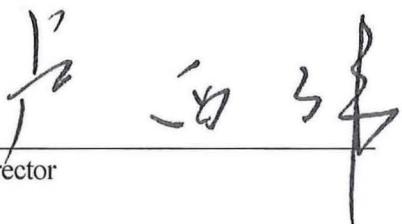
---

*[Signature Page Follows]*

---

IN WITNESS WHEREOF, the undersigned directors have executed this consent as of  
the day and year first above written.

---



Xiwei Lu, Director

---



Chuanhe Zhou, Director

---



Yanbin Yu, Director



中国北车股份有限公司  
CHINA CNR CORPORATION

### SECRETARY'S CERTIFICATE

The undersigned hereby certifies that he/she is the duly appointed and qualified Secretary of China CNR Corporation Limited, a corporation incorporated under the laws of the People's Republic of China (the "Corporation"), and that as such, is authorized to execute this Certificate on behalf of the Corporation and further certifies that attached hereto as Exhibit A is a true and correct excerpt from the minutes of the Meeting of the Board of Directors of the Corporation held on May 4, 2014, which have not been otherwise amended and continue in full force and effect.

IN WITNESS WHEREOF, the undersigned has caused this Certificate to be signed on behalf of the Corporation this tenth day of May, 2014.

Jilong Xie

Secretary, China CNR Corporation Limited

STATE OF CALIFORNIA  
COUNTY OF SAN FRANCISCO

On the 10 day of May in the year 2014 before me, the undersigned, personally appeared Jilong Xie, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Witness my hand and official seal.

Notary Public  
Printed Name: Allyson K. Day  
My Commission Expires: 1/25/18

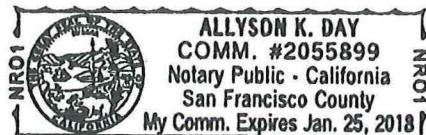




Exhibit A

**CHINA CNR CORPORATION LIMITED**

**MINUTES OF A MEETING OF THE BOARD OF DIRECTORS**

May 4, 2014

A meeting of the Board of Directors (the “Board”) of China CNR Corporation Limited (“CNR”) was held by telephone conference on May 4, 2014 at approximately 21: 00 Eastern Time. Present at the meeting were the following directors:

Mr. Dianguo Cui, Mr. Guohua Xi, Mr. Jun Wan, Mr. Fenghua Li,  
Mr. Zhong Zhang, Ms. Ying Shao, Mr. Dinghua Xin

who together represented a majority of the voting directors in office and thus constituting a quorum of directors for the conduct and transaction of business in accordance with the CNR’s by-laws and the laws of the People’s Republic of China.

Mr. Dianguo Cui acted as Chairman of the meeting, and Mr. Jilong Xie acted as Secretary of the meeting. Mr. Dianguo Cui called the meeting to order.

Mr. Dianguo Cui hosted the Board discussion on the following resolutions, which were seconded and approved unanimously by all board members present to the meeting:

Now Therefore Be It Resolved, that the Board shall approve and authorize CNR’s participation as a joint venture partner in the Massachusetts Bay Transportation Authority’s Request for Proposal No. CAP 27-10 New Orange and Red Line Vehicles procurement project (the “Project”) and shareholder of the CNR MA Corporation, a corporation incorporated under the laws of the Commonwealth of Massachusetts (“CNR MA”) who will be the offeror for the Project, along with CNR Changchun Railway Vehicles Co., Ltd. (“CNR CRC”), the other joint venture partner and shareholder of the CNR MA;

Further Resolved, that, the Board shall approve and authorize CNR MA to take all legal actions necessary to approve and participate in the Project;

Further Resolved, that the Board shall approve and authorize the board of CNR MA to appoint Mr. Xiwei Lu and Mr. Yanbin Yu, officers of CNR MA Corporation, or either one of them acting singly, to sign, execute and submit, on



中国北车股份有限公司  
CHINA CNR CORPORATION

behalf of CNR MA, PART A PRICE PROPOSAL and PART B TECHNICAL PROPOSAL AND STATEMENTS AND CERTIFICATIONS REGARDING ELIGIBILITY (together, the "Proposal") of the Project in such form, for such proposed prices and upon such other terms as Mr. Xiwei Lu or Mr. Yanbin Yu determines appropriate and in the best interests of CNR MA, as well as all other documents related to the Proposal or the Project; and

Further Resolved, that, the Board shall approve and authorize the officers, directors and agents of CNR MA to take, or cause to be taken, such other actions and to execute and deliver, or cause to be executed and delivered, such other documents, which he or they may determine are necessary or appropriate in connection with the Proposal and the Project, and all actions heretofore taken by the officers, directors and agents of CNR MA in connection with the subject of the foregoing resolutions be, and each of them hereby is approved, ratified and confirmed in all respects.

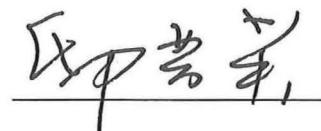
Respectfully submitted,

Jilong Xie  
Secretary of the Meeting

### SECRETARY'S CERTIFICATE

The undersigned hereby certifies that she is the duly appointed and qualified Secretary of CNR Changchun Railway Vehicles Co., Ltd., a corporation incorporated under the laws of the People's Republic of China (the "Corporation"), and that as such, is authorized to execute this Certificate on behalf of the Corporation and further certifies that attached hereto as Exhibit A is a true and correct excerpt from the minutes of the Meeting of the Board of Directors of the Corporation held on May 5, 2014, which have not been otherwise amended and continue in full force and effect.

IN WITNESS WHEREOF, the undersigned has caused this Certificate to be signed on behalf of the Corporation this tenth day of May, 2014.

  
Jinying Di

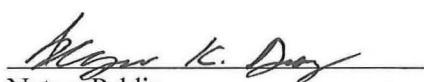
Secretary, CNR Changchun Railway Vehicles Co., Ltd.

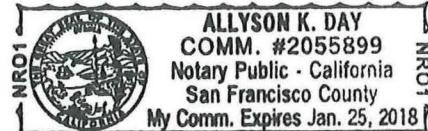
STATE OF CALIFORNIA  
COUNTY OF SAN FRANCISCO

On the 10 day of May in the year 2014 before me, the undersigned, personally appeared Jinying Di, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her capacity, and that by her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

  
Notary Public  
Printed Name: Allyson K. Day  
My Commission Expires: 1/25/18



## Exhibit A

### CNR CHANGCHUN RAILWAY VEHICLES CO., LTD.

#### MINUTES OF A MEETING OF THE BOARD OF DIRECTORS

May 5, 2014

A meeting of the Board of Directors (the “Board”) of CNR Changchun Railway Vehicles Co., Ltd. (“CNR CRC”) was held by telephone conference on May 5, 2014 at approximately 22:00 Eastern Time. Present at the meeting were the following directors:

Mr. Run Wang;  
Mr. Zhongyi An;  
Mr. Xiaoming Chen;  
Mr. Mingnan Jin;  
Ms. Jinying Di;  
Mr. Jinkun Yu;  
Mr. Jun Yu

who together represented a majority of the voting directors in office and thus constituting a quorum of directors for the conduct and transaction of business in accordance with the CNR CRC’s by-laws and the laws of the People’s Republic of China.

Mr. Run Wang acted as Chairman of the meeting, and Ms. Jinying Di acted as Secretary of the meeting. Mr. Run Wang called the meeting to order.

Mr. Run Wang hosted the Board discussion on the following resolutions, which were seconded and approved unanimously by all board members present to the meeting:

Now Therefore Be It Resolved, that the Board shall approve and authorize CNR CRC’s participation as a joint venture partner in the Massachusetts Bay Transportation Authority’s Request for Proposal No. CAP 27-10 New Orange and Red Line Vehicles procurement project (the “Project”) and shareholder of the CNR MA Corporation, a corporation incorporated under the laws of the Commonwealth of Massachusetts (“CNR MA”) who will be the offeror for the Project, along with China CNR Corporation Limited (“CNR”), the other joint partner and shareholder of CNR MA;

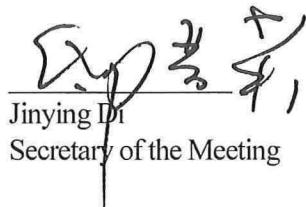
Further Resolved, that, the Board shall approve and authorize CNR MA to take all legal actions necessary to approve and participate in the Project;

Further Resolved, that the Board shall approve and authorize the board of CNR MA to appoint Mr. Xiwei Lu and Mr. Yanbin Yu, officers of CNR MA, or either one of them acting singly, to sign, execute and submit, on behalf of CNR MA, PART A PRICE

PROPOSAL and PART B TECHNICAL PROPOSAL AND STATEMENTS AND CERTIFICATIONS REGARDING ELIGIBILITY (together, the "Proposal") of the Project in such form, for such proposed prices and upon such other terms as Mr. Xiwei Lu or Mr. Yanbin Yu determines appropriate and in the best interests of CNR MA, as well as all other documents related to the Proposal or the Project; and

Further Resolved, that, the Board shall approve and authorize the officers, directors and agents of CNR MA to take, or cause to be taken, such other actions and to execute and deliver, or cause to be executed and delivered, such other documents, which he or they may determine are necessary or appropriate in connection with the Proposal and the Project, and all actions heretofore taken by the officers, directors and agents of CNR MA in connection with the subject of the foregoing resolutions be, and each of them hereby is approved, ratified and confirmed in all respects.

Respectfully submitted,

  
Jinying Di  
Secretary of the Meeting



---

**TABLE OF CONTENT****PART A PRICE PROPOSAL****(Volume 1 of 1)**

	<u>Page</u>
<b>A-1 FORM OF PRICE PROPOSAL</b>	<b>B-3</b>
<b>A-2 PRICE PROPOSAL SUMMARY</b>	<b>B-7</b>
<b>A-3 CAPITAL SPARE PARTS (BASE CONTRACT) – SCHEDEULE OF PRICES</b>	<b>B-18</b>
<b>A-4 OPTIONS</b>	
OPTION I – Red Line Cars with Capital Spares	B-36
OPTION II – Intentionally Omitted	B-46
OPTION III – Intentionally Omitted	B-47
OPTION IV – Additional Capital Spare Parts	B-48
OPTION V/OPTION V (a) -CCTV Operator Display Screens	B-49
OPTION VI/OPTION VI (a) – Gap Mitigation Devices	B-50
OPTION VII/OPTION VII (a)– Internal and External Passenger Door Open Pushbuttons	B-51
OPTION VIII/OPTION VIII (a) – LCD Monitors	B-52
OPTION IX/OPTION IX (a) – Active Route Maps	B-53
OPTION X/OPTION X (a) – Automatic Passenger Counting System	B-54
OPTION XI – Training Simulator	B-55

**SECTION B**

**PART A PRICE PROPOSAL**

**AND**

**PART B TECHNICAL PROPOSAL AND  
STATEMENTS AND CERTIFICATIONS REGARDING ELIGIBILITY**

**SECTION B**  
**PART A PRICE PROPOSAL**

**REQUEST FOR PROPOSAL NO.: RFP NO. CAP 27-10**

**NOTE:** The Offeror shall seal this portion of its Proposal in a separate envelope

**SECTION B**  
**PART A PRICE PROPOSAL**

**FORM OF PRICE PROPOSAL**

This constitutes the undersigned Offeror's price proposal for the base contract and options for furnishing and delivery of Orange Line Cars, Red Line Cars, Capital Spares, Manuals, Diagnostic Test Equipment and Training Aids, including all materials, services and costs for freight and insurance to MBTA Facilities in the greater Boston area, as provided in the contract provisions (Contract Provisions) of Request for Proposals No. CAP 27-10 (RFP), Specification No. VE-10-036 (Contract Specification), and all applicable Addenda (Solicitation Documents).

Proposal No. : CAP 27-10

Name of Offeror: CNR MA Corporation

Business Address: 111 Huntington Avenue, Boston, MA 02199

Address where Notification: Daisuke Iwama, Sojitz Corporation of America, 1120 Avenue of Americas, New York, NY, 10036

Telephone No.: +1 212 704 6776 Facsimile Number: +1 212 704 6880

E-mail No.: iwama.daisuke@sojitz.com

The undersigned proposes to furnish equipment, materials, and services in accordance with the Solicitation Documents for the RFP to which this Proposal Form is attached, at the following prices, subject to all applicable terms and conditions in the Solicitation Documents.

The undersigned has specified a unit price, in both words and figures in United States dollars (no cents) for each item for which a quantity is given, including all options, and identifies the products of the respective unit prices and quantities, written in figures in the column provided for that purpose and the total amount of the Price Proposal obtained by adding the amounts of the several items.

All words and figures shall be in black ink or in typewritten form. In case of a discrepancy between the unit prices written in words and unit prices written in figures, the written words shall govern.

The prices for any item include full compensation for all materials, equipment tools, labor, premiums on bonds, and all other direct and indirect costs necessary to complete the items to the satisfaction of the Authority.

The prices are net, not subject to discount, and shall include all royalties and costs arising from patents, trademarks and copyrights involved in any way with the work.

The prices include the cost of all applicable taxes, customs, duties, freight and transportation, and insurance for delivery of all items to MBTA Facilities in the greater Boston area.

The undersigned certifies that the prices offered in this Price Proposal do not exceed the prices quoted to any other customer of the Offeror for comparable Vehicles, Capital Spare Parts, manuals, diagnostic test equipment and training aids.

The undersigned further understands and agrees that if its Price Proposal is accepted, the prices offered, including those prices offered for options, shall remain firm and not subject to change, escalation or increase, except as provided under the term and conditions of the Contract.

If upon receipt of the Offeror's Price Proposal, the MBTA determines that it requires certified cost or pricing data from the Offeror in order to conduct a price reasonableness and realism analysis, the undersigned agrees that it will submit and/or make available cost or pricing data (as that term is defined in 48 C.F.R. Part 2.101) within four (4) working days of a request to do so by the Authority.

The undersigned acknowledges that this Price Proposal is prepared as if it is a best and final offer, and that the Authority has reserved the right to make award to offers submitted in response to the RFP without conducting negotiations and seeking best and final offers.

The undersigned acknowledges that the Price Proposal shall be valid for one hundred and eighty (180) days from date of proposal submittal. If the Authority requires additional time for its review, the Authority reserves the right to extend the validity of the proposal in thirty (30) day increments. Prices submitted remain in effect as originally submitted.

This Proposal is made this 15<sup>th</sup> day of May, 2014, and executed by the undersigned:

---

(IF AN INDIVIDUAL)

Signature of Offeror \_\_\_\_\_

Business Address \_\_\_\_\_

Federal Identification/Social Security No. \_\_\_\_\_

(IF A PARTNERSHIP)

Firm Name \_\_\_\_\_

BY\* \_\_\_\_\_

Title: \_\_\_\_\_

Business Address \_\_\_\_\_

Federal Identification/Social Security No. \_\_\_\_\_

Name(s) and Address(es) of all Partners of the Firm: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(IF A CORPORATION)

Corporation Name CNR MA Corporation

BY\* Mr. Yanbin Yu 

Title Treasurer

Business Address 111 Huntington Avenue, Boston, MA 02199

Federal Identification/Social Security No. 37-1753780

**\*IMPORTANT:** As provided in Section A1.07B, attach to Cover Letter proof of authority of Officer or Agent to sign Proposal.

**SECTION B**  
**PART A PRICE PROPOSAL**

For Part A Price Proposal, each Offeror must furnish all of the information requested for:

- Base Award Price
- Total Proposal Price

For Part A Price Proposal, each Offeror must furnish all of the information requested for Price Evaluation as required for compliance with the Contract.

NOTE: Offerors are instructed that payment for Items in the Base Award and Options shall be in accordance with Section C2 and Section C10.



**SECTION B**  
**PART A PRICE PROPOSAL**

**PRICE PROPOSAL SUMMARY**

**Base Award**

Furnish and deliver 152 New Orange Line Cars and 74 New Red Line Cars with Capital Spares, Manuals and Diagnostic Equipment and Training Aids all in accordance with Specification No. VE-10-036.

**TOTAL BASE AWARD**      \$ 430,184,655  
(Item 6 carried forward from Page B-9)

**Proposal Price**

The Basis for Price Evaluation includes the Base Award Price plus all Options.

**TOTAL PROPOSAL PRICE**      \$ 566,598,992  
(Item 8 carried forward from Page B-9)



**SECTION B**  
**PART A PRICE PROPOSAL**

NOTE: This is only a short form. Offerors shall refer to Section A and Section C2 for a full and complete description of all items.

<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED</u> <u>UNIT PRICE</u>	<u>TOTAL BASE</u> <u>PROPOSAL PRICE</u>
1a	152	New Orange Line Cars configured in married pairs  AT: <u>One Million Seven Hundred and Ten Thousand US Dollars.</u> State written amount	\$ <u>1,710,000</u>	\$ <u>259,920,000</u> Total value for 152 Cars
1b	74	New Red Line Cars configured in married pairs  AT: <u>One Million Seven Hundred and Thirty Thousand US Dollars.</u> State written amount	\$ <u>1,730,000</u>	\$ <u>128,020,000</u> Total value for 74 Cars
2	LOT	Capital Spare Parts  AT: <u>Twenty-Eight Million Seven Hundred and Forty-Four Thousand Six Hundred and Fifty-Five US Dollars.</u> State written amount		\$ <u>28,744,655</u> LOT Price carried forward from Page B-35
3		Manuals & Special Instruction Books  AT: <u>Six Hundred Thousand US Dollars.</u> State written amount		\$ <u>600,000</u> Lump Sum
4		Diagnostic Equipment & Special Tools  AT: <u>Eleven Million Five Hundred Thousand US Dollars</u> State written amount		\$ <u>11,500,000</u> Lump Sum
5		Training & Vehicle Maintenance Education Program  AT: <u>One Million Four Hundred Thousand US Dollars.</u> State written amount		\$ <u>1,400,000</u> Lump Sum

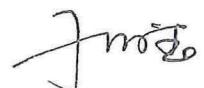


<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED</u> <u>UNIT PRICE</u>	<u>TOTAL BASE</u> <u>PROPOSAL PRICE</u>
6		Total for Items 1-5 (Base Award)		\$ 430,184,655 Total for Items 1-5 Carry forward to Page B-7
7	LOT	Options AT: <u>One Hundred Thirty-Six Million Four</u> <u>Hundred and Fourteen Thousand Three</u> <u>Hundred and Thirty Seven US Dollars.</u> State written amount		\$ <u>136,414,337</u> Total Price carried forward from Page B-16
8		<b>TOTAL FOR ITEMS 6 AND 7 AND OPTIONS</b> Total amount stated on Line 8, including Options, will be the basis for the Price Evaluation		\$ <u>566,598,992</u> Proposal Price / Basis for Price Evaluation. Carry forward to Page B-7

<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED</u> <u>UNIT PRICE</u>	<u>TOTAL</u> <u>OPTION PRICE</u>
Option I	58	Red Line Cars with Capital Spares AT: <u>One Million Eight Hundred and Sixty</u> <u>Thousand and Nineteen US Dollars.</u> State written amount	\$ <u>1,860,019</u>	\$ <u>107,881,110</u> Total value for 58 Cars with Capital Spares carried forward from Pages B-36 and B-45
Option II	INTENTIONALLY OMITTED			
Option III	INTENTIONALLY OMITTED			
Option IV		Additional Capital Spare Parts AT: <u>Fourteen Million Three Hundred and</u> <u>Seventy-Two Thousand Three Hundred and</u> <u>Twenty-Eight US Dollars.</u> State written amount		\$ <u>14,372,328</u> Insert 50% of Item 2 Total on Page B-8; carried forward from Page B-48



<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED</u> <u>UNIT PRICE</u>	<u>TOTAL</u> <u>OPTION PRICE</u>
Option V	113	CCTV Operator Display Screens and other items as applicable  NOTE: The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.  AT: <u>Two Thousand One Hundred and Twelve US Dollars.</u> State written amount	\$ <u>2,112</u>	\$ <u>238,684</u> Total value for 113 Units carried forward from Page B-49
Option V(a)	29	Additional CCTV Operator Display Screens at the same unit price if Option I is exercised  NOTE: The unit and total price for Option V(a) shall <u>not</u> include a ten percent (10%) allowance for associated Capital Spare Parts.  AT: <u>One Thousand Nine Hundred and Twenty US Dollars.</u> State written amount	\$ <u>1,920</u>	\$ <u>55,684</u> Total value for 29 Units carried forward from Page B-49



<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED</u> <u>UNIT PRICE</u>	<u>TOTAL</u> <u>OPTION PRICE</u>
Option VI	226	<p>Gap Mitigation Devices and other items as applicable</p> <p>NOTE: The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.</p> <p>AT: <u>Eleven Thousand Seven Hundred and Eighty-One US Dollars.</u> State written amount</p>	\$ <u>11.781</u>	<p>\$ <u>2,662,506</u> Total value for 226 Units carried forward from Page B-50</p>
Option VI(a)	58	<p>Additional Gap Mitigation Devices at the same unit price if Option I is exercised</p> <p>NOTE: The unit and total price for Option VI(a) shall <u>not</u> include a ten percent (10%) allowance for associated Capital Spare Parts.</p> <p>AT: <u>Ten Thousand Seven Hundred and Ten US Dollars.</u> State written amount</p>	\$ <u>10.710</u>	<p>\$ <u>621,180</u> Total value for 58 Units carried forward from Page B-50</p>



<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED</u> <u>UNIT PRICE</u>	<u>TOTAL</u> <u>OPTION PRICE</u>
Option VII	1,504	<p>Internal and External Passenger Door Open Pushbuttons and other items as applicable</p> <p>NOTE: The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.</p> <p>AT: <u>Three Hundred and Fifty-Two US Dollars.</u> State written amount</p>	\$ 352	<p>\$ <u>529,181</u></p> <p>Total value for 1,504 Sets carried forward from Page B-51</p>
Option VII(a)	464	<p>Additional Internal and External Passenger Door Open Pushbuttons at the same unit price if Option I is exercised</p> <p>NOTE: The unit and total price for Option VII(a) shall <u>not</u> include a ten percent (10%) allowance for associated Capital Spare Parts.</p> <p>AT: <u>Three Hundred and Twenty US Dollars.</u> State written amount</p>	\$ 320	<p>\$ <u>148,416</u></p> <p>Total value for 464 Sets carried forward from Page B-51</p>



<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED</u> <u>UNIT PRICE</u>	<u>TOTAL</u> <u>OPTION PRICE</u>
Option VIII	752	<p>LCD Monitors and other items as applicable</p> <p>NOTE: The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.</p> <p>AT: <u>Three Thousand and Seventeen US Dollars.</u> State written amount</p>	\$ <u>3,017</u>	<p>\$ <u>2,268,968</u> Total value for 752 Units carried forward from Page B-52</p>
Option VIII(a)	232	<p>Additional LCD Monitors at the same unit price if Option I is exercised</p> <p>NOTE: The unit and total price for Option VIII(a) shall <u>not</u> include a ten percent (10%) allowance for associated Capital Spare Parts.</p> <p>AT: <u>Two Thousand Seven Hundred and Forty-Three US Dollars.</u> State written amount</p>	\$ <u>2,743</u>	<p>\$ <u>636,364</u> Total value for 232 Units carried forward from Page B-52</p>



<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED UNIT PRICE</u>	<u>TOTAL OPTION PRICE</u>
Option IX	752	<p>Active Route Maps and other items as applicable</p> <p>NOTE: The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.</p> <p>AT: <u>Three Thousand and Seventeen US Dollars.</u> State written amount</p>	\$ 3,017	<p>\$ 2,268,968 Total value for 752 Units carried forward from Page B-53</p>
Option IX(a)	232	<p>Additional Active Route Maps at the same unit price if Option I is exercised</p> <p>NOTE: The unit and total price for Option IX(a) shall <u>not</u> include a ten percent (10%) allowance for associated Capital Spare Parts.</p> <p>AT: <u>Two Thousand Seven Hundred and Forty-Three US Dollars.</u> State written amount</p>	\$ 2,743	<p>\$ 636,364 Total value for 232 Units carried forward from Page B-53</p>



<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED</u> <u>UNIT PRICE</u>	<u>TOTAL</u> <u>OPTION PRICE</u>
Option X	1,504	<p>Automatic Passenger Counting Systems and other items as applicable</p> <p>NOTE: The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.</p> <p>AT: <u>One Thousand and Twenty-Two US Dollars.</u> State written amount</p>	\$ 1,022	<p><u>\$ 1,537.020</u> Total value for 1,504 Units carried forward from Page B-54</p>
Option X(a)	464	<p>Additional Automatic Passenger Counting Systems at the same unit price if Option I is exercised</p> <p>NOTE: The unit and total price for Option X(a) shall <u>not</u> include a ten percent (10%) allowance for associated Capital Spare Parts.</p> <p>AT: <u>Nine Hundred and Twenty-Nine US Dollars.</u> State written amount</p>	\$ 929	<p><u>\$ 431,079</u> Total value for 464 Units carried forward from Page B-54</p>
Option XI	1	<p>Training Simulator</p> <p>AT: <u>Two Million One Hundred and Twenty-Six Thousand Four Hundred and Eighty-Three US Dollars.</u> State written amount</p>	\$ 2,126,483	<p><u>\$ 2,126,483</u> Total value for 1 Unit carried forward from Page B-55</p>



<u>Item</u>	<u>Qty</u>	<u>DESCRIPTION OF EQUIPMENT</u> (Unit Price Written in Words)	<u>DELIVERED</u> <u>UNIT PRICE</u>	<u>TOTAL</u> <u>OPTION PRICE</u>
		<b>TOTAL FOR OPTIONS I – XI</b> Included in the basis for Price Evaluation		\$ <u>136,414,337</u> <b>TOTAL OF ALL OPTIONS</b> Sum of Total \$ for Options I – XI, all inclusive. Carry forward to Page B-9, Item No.7



**SECTION B**  
**PART A PRICE PROPOSAL**

**Base Proposal Price: Capital Spare Parts**

The Offeror shall itemize below in the format noted the recommended Spare Parts in accordance with the Contract Provisions as detailed in Section C6.11.

**NOTE:** The Authority reserves the right to purchase Spare Parts as a total package or on an individual-item basis, and/or to increase or decrease quantities listed, whichever is in the best interest of the Authority.



**SECTION B**  
**PART A PRICE PROPOSAL**

**CAPITAL SPARE PARTS (BASE CONTRACT) - SCHEDULE OF PRICES**

As provided in Section C6.11B2, the Capital Spare Parts listed below are for the total procurement of 152 Orange Line and 74 Red Line Cars. In cases where Capital Spare Parts are not interchangeable between Lines, the quantity breakdown shall be 67% Orange Line and 33% Red Line, rounded to the nearest car set. The Offeror shall identify in the schedule below which Capital Spare Parts are not interchangeable between Lines. For those Capital Spare Parts that are not interchangeable between Lines, the Offeror shall identify the quantity, unit prices, and extended prices for those Capital Spare Parts using the quantity breakdown of 67% Orange Line and 33% Red Line.

As used in this schedule, the term "Extended Price" means the unit price for each Capital Spare Part multiplied by the designated quantity for each Capital Spare Part.

ITEM	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.	20	EA	Truck Complete	\$ 248,725	\$ 4,974,500
			If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____
2.	5	C.S.	Primary Suspension Complete	\$ 4,933	\$ 24,665
			If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____
3.	12	C.S.	Secondary Suspension Components, including all Truck and Carbody Mounted Valves and Linkages	\$ 11,512	\$ 138,144
			If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____
4.	40	EA	Wheel and Axle Assembly, complete	\$ 11,630	\$ 465,200
			If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
5. 14	EA	Gear Units Complete with Couplings	\$ 31,080	\$ 435,120
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
6. 18	EA	Ground Brush and Ring Assemblies	\$ 4,560	\$ 82,080
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
7. 28	EA	Traction Motors, complete	\$ 20,520	\$ 574,560
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
8. 32	C.S.	Tread Brake Units	\$ 24,005	\$ 768,160
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
9. 14	EA	Truck to Carbody Electrical Connectors	\$ 556	\$ 7,784
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
10. 58	EA	Speed Sensor Probes and Cables of each type	\$ 1,949	\$ 113,042
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
11. 12	C.S.	Pneumatic Friction Brake Equipment complete, including Air Horn	\$ 28,059	\$ 336,708
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____



ITEM	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
12.	12	EA	Friction Brake Control Unit	\$ 27,896	\$ 334,752
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
13.	12	EA	Air Compressor, complete	\$ 21,498	\$ 257,976
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
14.	5	C.S.	Battery Assemblies, complete	\$ 66,885	\$ 334,425
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
15.	12	EA	Low Voltage DC Power Supply, complete	Included in item 17	
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
16.	12	EA	Low Voltage DC Power Supply, disassembled (by module circuit card, etc.)	Included in item 17	
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
17.	12	EA	Auxiliary Inverter Assembly, complete	\$ 75,840	\$ 910,080
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
18. 12	EA	Auxiliary Inverter Assembly, disassembled (by module circuit card, etc.)	\$ 82,560	\$ 990,720
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
19. 12	C.S.	No. 1 End Coupler Equipment, complete	\$ 30,598	\$ 367,176
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
20. 10	C.S.	Drum Switch Assembly, complete (if applicable)	\$ 2,795	\$ 27,950
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
21. 12	C.S.	Trainline Controls, complete	\$ 31,698	\$ 380,376
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
22. 36	EA	Electric Coupler Head, complete (Left)	\$ 8,070	\$ 290,520
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
23. 36	EA	Electric Coupler Head, complete (Right)	\$ 7,661	\$ 275,796
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____



ITEM	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
24.	200	EA	Electric Coupler Head, Contacts	\$ 168	\$ 33,600
			If not interchangeable between Lines:	QTY.	
			Orange Line	_____	\$ _____
			Red Line	_____	\$ _____
25.	12	C.S.	No. 2 End Coupler Equipment, complete	\$ 11,160	\$ 133,920
			If not interchangeable between Lines:	QTY.	
			Orange Line	_____	\$ _____
			Red Line	_____	\$ _____
26.	14	C.S.	Propulsion, Braking, and Wheelslip Control Equipment, complete (Excluding Truck Mounted Components and Propulsion Inverter Packages). Including, but not limited to, Circuit Cards, High Speed Circuit Breaker and Knife Switch Assembly	\$ 81,939	\$ 1,147,146
			If not interchangeable between Lines:	QTY.	
			Orange Line	_____	\$ _____
			Red Line	_____	\$ _____
27.	10	C.S.	Propulsion Inverter Assembly, complete	\$ 181,680	\$ 1,816,800
			If not interchangeable between Lines:	QTY.	
			Orange Line	_____	\$ _____
			Red Line	_____	\$ _____
28.	18	C.S.	Propulsion Inverter disassembled (by module, circuit card, etc.)	\$ 100,680	\$ 1,812,240
			If not interchangeable between Lines:	QTY.	
			Orange Line	_____	\$ _____
			Red Line	_____	\$ _____
29.	18	EA	Propulsion Inverter IGBT and heat sink Assembly	\$ 23,160	\$ 416,880
			If not interchangeable between Lines:	QTY.	
			Orange Line	_____	\$ _____
			Red Line	_____	\$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
30. 12	EA	Master Controllers	\$ 11,025	\$ 132,300
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
31. 12	EA	Inching Switch Assembly, complete	\$ 6,949	\$ 83,388
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
32. 12	C.S.	HVAC Unit, complete	\$ _____	\$ _____
		If not interchangeable between Lines:	QTY.	
		Orange Line	8	\$ 57,022
		Red Line	4	\$ 53,667
				\$ 456,176
				\$ 214,668
33. 18	EA	Air Comfort System Motor/Compressor complete	\$ 3,790	\$ 68,220
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
34. 18	EA	Air Comfort System Evaporator Blower Unit, complete	\$ 1,203	\$ 21,654
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
35. 18	EA	Air Comfort System Condenser Motor/Fan Assembly, complete	\$ 1,392	\$ 25,056
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
36. 18	EA	Air Comfort System Controls (by module circuit card, etc.)	\$ 1,421	\$ 25,578
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
37. 12	C.S.	All Motors (except Traction and Air Comfort System Motors)	\$ 5,764	\$ 69,168
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
38. 5	C.S.	Passenger Side Door System, complete, including controller module, Excluding Side Door Leafs	\$ 52,816	\$ 264,080
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
39. 4	C.S.	Side Door Leaf, Complete Assemblies, including all Hardware, Edges, Seals, and Brushes an Brackets	\$ 12,892	\$ 51,568
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
40. 5	C.S.	Lighting Fixtures, including LED's	\$ 8,310	\$ 41,550
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
41. 12	EA	Vehicle Monitoring Unit	\$ 10,320	\$ 123,840
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____



ITEM	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
42.	24	EA	Vehicle Monitoring Display	\$ 11,160	\$ 267,840
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
43.	12	EA	Multifunction Vehicle Bus and Wire Train Bus Modules	\$ 27,840	\$ 334,080
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
44.	15	EA	LED Interior Lighting Fixtures, each size and type	\$ 400	\$ 6,000
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
45.	30	EA	LED Interior Lighting Fixture Lenses, each size and type	\$ 55	\$ 1,650
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
46.	60	EA	LED Lamp Sockets	\$ N/A	\$ N/A
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
47.	20	EA	Vehicle and Train Ethernet Switches	\$ 31,080	\$ 621,600
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
48. 18	C.S.	Communication, Intercom, Passenger Emergency Intercom with PEI Stations, Radio, Public Address Equipment and Power Supplies, complete (excluding Passenger Compartment and Cab Speakers)	\$ 21,797	\$ 392,346
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
49. 5	C.S.	Interior, Exterior and Cab Speakers	\$ 114	\$ 570
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
50. 18	EA	Motorman Handset, with Cable	\$ 146	\$ 2,628
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
51. 12	EA	End Destination Sign, complete	\$ 2,211	\$ 26,532
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
52. 20	EA	Side Destination Sign, complete	\$ 1,921	\$ 38,420
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
53. 18	EA	Transverse Interior Message Display Assembly, complete	\$ 2,881	\$ 51,858
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____



ITEM	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
54.	12	EA	Automatic Announcement and Sign Control Unit, complete	\$ 932	\$ 11,184
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
55.	60	EA	LCD Monitors	\$ 3,550	\$ 213,000
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
56.	12	EA	Active Route Maps, each type	\$ 3,550	\$ 42,600
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
57.	8	C.S.	Interior Lining/ Panel Assemblies including Windscreens	\$ 5,374	\$ 42,992
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
58.	2	C.S.	Interior Trim, finished	\$ 220	\$ 440
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
59.	2	C.S.	Floor covering	\$ N/A	\$ N/A
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
60. 2	C.S.	Stanchion Assemblies	\$ 201	\$ 402
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
61. 10	C.S.	#2 End and #1 End Non-cab Car Door Assembly, complete	\$ 7,437	\$ 74,370
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
62. 4	C.S.	#1 End Door Assembly, complete, Cab Car	\$ 3,463	\$ 13,852
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
63. 10	EA	Cab Access Door Assembly, complete	\$ N/A	\$ N/A
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
64. 12	C.S.	Cab Sash Assembly, complete	\$ 500	\$ 6,000
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
65. 5	C.S.	Window/ Windshield Glass, all types, including Side and End Doors	\$ 2,845	\$ 14,225
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
66. 10	C.S.	Window Glazing all types, including Side and End Doors	\$ 959	\$ 9,590
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
67. 60	C.S.	Passenger Seat Inserts	\$ 220	\$ 13,200
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
68. 10	EA	Passenger Seat Assemblies, each type, Complete	\$ 2,583	\$ 25,830
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
69. 12	EA	Operator's Seat Assembly, complete	\$ 1,292	\$ 15,504
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
70. 5	C.S.	Switches, all types, all systems	\$ 7,589	\$ 37,945
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____
71. 10	C.S.	Prefabricated Electrical Cable Assemblies, all types, all systems	\$ 29,440	\$ 294,400
		If not interchangeable between Lines:	QTY. Orange Line _____ Red Line _____	\$ _____ \$ _____ \$ _____ \$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
72. 10	C.S.	Electrical Connectors, all types, all systems	\$ 39,525	\$ 395,250
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
73. 10	C.S.	Relays, Contactors, all types, all systems	\$ 21,902	\$ 219,020
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
74. 12	C.S.	Prefabricated Pneumatic Lines, all types, all systems	\$ 12,833	\$ 153,996
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
75. 5	C.S.	Circuit Breakers, all types, all systems	\$ 1,833	\$ 9,165
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
76. 18	C.S.	Fuses, all types, all systems	\$ 3,250	\$ 58,500
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____
77. 14	C.S.	Windshield Wiper and Washer Equipment, Complete	\$ 479	\$ 6,706
		QTY.		
		If not interchangeable between Lines:	Orange Line _____	\$ _____
			Red Line _____	\$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
78. 6	EA	Emergency Ladder, complete	\$ 500	\$3,000
		If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
79. 6	EA	Evacuation Chair, complete	\$ 500	\$ 3,000
		If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
80. 20	EA	Fire Extinguisher, 10 lb	\$ 200	\$ 4,000
		If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
81. 20	EA	Fire Extinguisher, 5 lb	\$ 100	\$ 2,000
		If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
82. 5	C.S.	End Gates, complete	\$ 3,719	\$ 18,595
		If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
83. 9	EA	Each type formed Structural Carbody Components	\$ 126,088	\$1,134,792
		If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
84. 5	EA	Anti-climbers, each type	\$ 333	\$ 1,665
		If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
85. 20	C.S.	Crush Zone Elements, complete	\$ 833	\$ 16,660
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
86. 5	C.S.	All Truck Components, excluding Items Two (2) through Ten (10)	\$ 64,909	\$ 324,545
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
87. 6	C.S.	Exterior Feature Stripe Material	\$3,333	\$ 19,998
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
88. 10	C.S.	LED Lighting Conditioning Power Supplies, if required	\$ 60	\$ 600
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
89. 12	EA	Instructor's Seat, complete	\$ 1,292	\$ 15,504
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____
90. 9	C.S.	Stretcher and Emergency Evacuation Chair	\$ 500	\$ 4,500
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____
		Red Line	_____	\$ _____



ITEM	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
91.	6	C.S.	Ad Card Frames, complete	\$ 173	\$ 1,038
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
92.	2	C.S.	Cab Console, complete	\$ 21,016	\$ 42,032
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
93.	10	C.S.	Cab Console Equipment, including all Indicators, Switches, and Buttons Monitoring Panels, etc.	\$ 21,016	\$ 210,160
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
94.	16	C.S.	Hostler Panel and all Indicators, Switches and Buttons in the Non-Cab Car	\$ 11,895	\$ 190,320
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
95.	12	C.S.	Event Recorder System	\$ 5,822	\$ 69,864
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____
96.	20	EA	ATP Receiver Coils	\$ 403	\$ 8,060
			If not interchangeable between Lines:	Orange Line Red Line	QTY. _____ _____ \$ _____ \$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
97. 4	EA	Brake Assurance Accelerometers		Included in item 103
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____ \$ _____
		Red Line	_____	\$ _____ \$ _____
98. 9	EA	ATP/ASR Unit Assemblies and Cases	\$20,501	\$ 184,509
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____ \$ _____
		Red Line	_____	\$ _____ \$ _____
99. 9	EA	ATP Modules	\$ 19,350	\$ 174,150
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____ \$ _____
		Red Line	_____	\$ _____ \$ _____
100. 9	EA	ASR Modules	\$ 19,350	\$ 174,150
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____ \$ _____
		Red Line	_____	\$ _____ \$ _____
101. 9	EA	ADU Units	\$ 2,555	\$ 22,995
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____ \$ _____
		Red Line	_____	\$ _____ \$ _____
102. 9	EA	ATP/ASR Conditioning Power Supplies, if separate	\$ N/A	\$ N/A
		If not interchangeable between Lines:	QTY.	
		Orange Line	_____	\$ _____ \$ _____
		Red Line	_____	\$ _____ \$ _____



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
103. 34	C.S.	Complete Carsets of Printed Circuit Board and Assemblies for all Subsystems	\$ 104,097	\$ 3,539,298
		QTY.		
		If not interchangeable between Lines:    Orange Line _____	\$ _____	\$ _____
		Red Line _____	\$ _____	\$ _____
104. 13	E.A.	Wireless LAN Radio and antenna, complete	\$ 10,231	\$ 133,003
		QTY.		
		Orange Line _____	\$ _____	\$ _____
		Red Line _____	\$ _____	\$ _____
105. 13	E.A.	Wireless WAN Gateway and antenna, complete	Included in item 107	
		QTY.		
		Orange Line _____	\$ _____	\$ _____
		Red Line _____	\$ _____	\$ _____
106. 13	E.A.	GPS and antenna, complete	\$512	\$ 6,656
		QTY.		
		Orange Line _____	\$ _____	\$ _____
		Red Line _____	\$ _____	\$ _____
107. 1	E.A.	Wayside WLAN and antenna, complete	\$10,300	\$10,300
		TOTAL AMOUNT	\$ 28,744,655	
			(Carry forward to Item 2	
			on page B-8)	

Note: The Authority reserves the right to determine the final mix and quantity per line item following confirmation of design.

NOTE: THE AUTHORITY RESERVES THE RIGHT TO PURCHASE SPARE PARTS EITHER AS A TOTAL PACKAGE OR ON AN INDIVIDUAL-ITEM BASIS, AND/OR TO INCREASE OR TO DECREASE QUANTITIES LISTED, WHICHEVER IS IN THE BEST INTEREST OF THE AUTHORITY.



**SECTION B**  
**PART A PRICE PROPOSAL**

**Option I**      **Red Line Cars with Capital Spares**

The Authority reserves the right within five (5) years of the Notice to Proceed to exercise an option for the furnishing and delivery of 58 Red Line Cars with Capital Spares (identified by item and quantity in Section B Part A Capital Spare Parts – Option I). Prices offered shall remain fixed for Vehicles and Capital Spare Parts purchased through the end of thirty-six (36) months following the Notice to Proceed, and shall be subject to escalation pursuant to Section C2.02 for Vehicles and Capital Spare Parts purchased thereafter.

The Authority reserves the right to assign this or other Options in total or portion thereof, to another transit agency, subject to the acceptance of the terms and conditions by both parties.

<b>Quantity</b>	<b>Unit Price</b>	<b>Extended Price</b>
58	\$ 1,730,000	\$100,340,000
Capital Spares	\$7,541,110	(Total Cars with Capital Spares; Carry forward to page B-9, Item No. Option I)



**SECTION B**  
**PART A PRICE PROPOSAL**

**CAPITAL SPARE PARTS (OPTION I) - SCHEDULE OF PRICES**

ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1. 5	EA	Truck Complete	\$ 248,725	\$ 1,243,625
2. 2	C.S.	Primary Suspension Complete	\$ 4,933	\$ 9,866
3. 3	C.S.	Secondary Suspension Components, including all Truck and Carbody Mounted Valves and Linkages	\$ 11,512	\$ 34,536
4. 10	EA	Wheel and Axle Assembly, complete	\$ 11,630	\$ 116,300
5. 4	EA	Gear Units Complete with Couplings	\$ 31,080	\$ 124,320
6. 5	EA	Ground Brush and Ring Assemblies	\$ 4,560	\$ 22,800
7. 7	EA	Traction Motors, complete	\$ 20,520	\$ 143,640
8. 8	C.S.	Tread Brake Units	\$ 24,005	\$ 192,040
9. 4	EA	Truck to Carbody Electrical Connectors	\$ 556	\$ 2,224
10. 15	EA	Speed Sensor Probes and Cables of each type	\$ 1,949	\$ 29,235
11. 3	C.S.	Pneumatic Friction Brake Equipment complete, including Air Horn	\$ 28,059	\$ 84,177



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
12. 3	EA	Friction Brake Control Unit	\$ 27,896	\$ 83,688
13. 3	EA	Air Compressor, complete	\$ 21,498	\$ 64,494
14. 2	C.S.	Battery Assemblies, complete	\$ 66,885	\$ 133,770
15. 3	EA	Low Voltage DC Power Supply, complete	Included in item 17	
16. 3	EA	Low Voltage DC Power Supply, disassembled (by module circuit card, etc.)	Included in item 17	
17. 3	EA	Auxiliary Inverter Assembly, complete	\$ 75,840	\$ 227,520
18. 3	EA	Auxiliary Inverter Assembly, disassembled (by module circuit card, etc.)	\$ 82,560	\$ 247,680
19. 3	C.S.	No. 1 End Coupler Equipment, complete	\$ 30,598	\$ 91,794
20. 2	C.S.	Drum Switch Assembly, complete (if applicable)	\$ 2,795	\$ 5,590
21. 3	C.S.	Trainline Controls, complete	\$ 31,698	\$ 95,094
22. 9	EA	Electric Coupler Head, complete (Left)	\$ 8,070	\$ 72,630
23. 9	EA	Electric Coupler Head, complete (Right)	\$ 7,661	\$ 68,949
24. 50	EA	Electric Coupler Head, Contacts	\$ 168	\$ 8,400



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
25. 3	C.S.	No. 2 End Coupler Equipment, complete	\$ <u>11,160</u>	\$ <u>33,480</u>
26. 4	C.S.	Propulsion, Braking, and Wheelslip Control Equipment, complete (Excluding Truck Mounted Components and Propulsion Inverter Packages). Including, but not limited to, Circuit Cards, High Speed Circuit Breaker andKnife Switch Assembly	\$ <u>81,939</u>	\$ <u>327,756</u>
27. 3	C.S.	Propulsion Inverter Assembly, complete	\$ <u>181,680</u>	\$ <u>545,040</u>
28. 5	C.S.	Propulsion Inverter disassembled (by module, circuit card, etc.)	\$ <u>100,680</u>	\$ <u>503,400</u>
29. 5	EA	Propulsion Inverter IGBT and heat sink Assembly	\$ <u>23,160</u>	\$ <u>115,800</u>
30. 3	EA	Master Controllers	\$ <u>11,025</u>	\$ <u>33,075</u>
31. 3	EA	Inching Switch Assembly, complete	\$ <u>6,949</u>	\$ <u>20,847</u>
32. 3	C.S.	HVAC Unit, complete	\$ <u>53,667</u>	\$ <u>161,001</u>
33. 5	EA	Air Comfort System Motor/Compressor complete	\$ <u>3,790</u>	\$ <u>18,950</u>
34. 5	EA	Air Comfort System Evaporator Blower Unit, complete	\$ <u>1,203</u>	\$ <u>6,015</u>
35. 5	EA	Air Comfort System Condenser Motor/Fan Assembly, complete	\$ <u>1,392</u>	\$ <u>6,960</u>



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
36. 5	EA	Air Comfort System Controls (by module circuit card, etc.)	\$ 1,421	\$ 7,105
37. 3	C.S.	All Motors (expect Traction and Air Comfort System Motors)	\$ 5,764	\$17,292
38. 2	C.S.	Passenger Side Door System, complete, including controller module, Excluding Side Door Leafs	\$ 52,816	\$ 105,632
39. 1	C.S.	Side Door Leaf, Complete Assemblies, including all Hardware, Edges, Seals, and Brushes an Brackets	\$ 12,892	\$12,892
40. 2	C.S.	Lighting Fixtures, including LED's	\$ 8,310	\$16,620
41. 3	EA	Vehicle Monitoring Unit	\$ 10,320	\$ 30,960
42. 6	EA	Vehicle Monitoring Display	\$ 11,160	\$ 66,960
43. 3	EA	Multifunction Vehicle Bus and Wire Train Bus Modules	\$ 27,840	\$83,520
44. 4	EA	LED Interior Lighting Fixtures, each size and type	\$ 400	\$ 1,600
45. 8	EA	LED Interior Lighting Fixture Lenses, each size and type	\$ 55	\$ 440
46. 15	EA	LED Lamp Sockets	\$ N/A	\$ N/A



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
47. 5	EA	Vehicle and Train Ethernet Switches	\$ 31,080	\$ 155,400
48. 5	C.S.	Communication, Intercom, Passenger Emergency Intercom with PEI Stations, Radio, Public Address Equipment and Power Supplies, complete (excluding Passenger Compartment and Cab Speakers)	\$ 21,797	\$ 108,985
49. 2	C.S.	Interior, Exterior and Cab Speakers	\$ 114	\$228
50. 5	EA	Motorman Handset, with Cable	\$ 146	\$ 730
51. 3	EA	End Destination Sign, complete	\$ 2,211	\$ 6,633
52. 5	EA	Side Destination Sign, complete	\$ 1,921	\$ 9,605
53. 5	EA	Transverse Interior Message Display Assembly, complete	\$ 2,881	\$ 14,405
54. 3	EA	Automatic Announcement and Sign Control Unit, complete	\$ 932	\$ 2,796
55. 15	EA	LCD Monitors	\$ 3,550	\$ 53,250
56. 3	EA	Active Route Maps, each type	\$ 3,550	\$ 10,650
57. 2	C.S.	Interior Lining/ Panel Assemblies including Windscreens	\$ 5,374	\$ 10,748
58. 1	C.S.	Interior Trim, finished	\$ 220	\$ 220



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
59. 1	C.S.	Floor covering	\$ N/A	\$ N/A
60. 1	C.S.	Stanchion Assemblies	\$ 201	\$ 201
61. 3	C.S.	#2 End and #1 End Non-cab Car Door Assembly, complete	\$ 7,437	\$ 22,311
62. 1	C.S.	#1 End Door Assembly, complete, Cab Car	\$ 3,463	\$ 3,463
63. 3	EA	Cab Access Door Assembly, complete	\$ N/A	\$ N/A
64. 3	C.S.	Cab Sash Assembly, complete	\$ 500	\$ 1,500
65. 2	C.S.	Window/ Windshield Glass, all types, including Side and End Doors	\$ 2,845	\$ 5,690
66. 3	C.S.	Window Glazing all types, including Side and End Doors	\$ 959	\$ 2,877
67. 15	C.S.	Passenger Seat Inserts	\$ 220	\$ 3,300
68. 3	EA	Passenger Seat Assemblies, each type, Complete	\$ 2,583	\$ 7,749
69. 3	EA	Operator's Seat Assembly, complete	\$ 1,292	\$ 3,876
70. 2	C.S.	Switches, all types, all systems	\$ 7,589	\$ 15,178



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
71. 3	C.S.	Prefabricated Electrical Cable Assemblies, all types, all systems	\$ 29,440	\$ 88,320
72. 3	C.S.	Electrical Connectors, all types, all systems	\$ 39,525	\$ 118,575
73. 3	C.S.	Relays, Contactors, all types, all systems	\$ 21,902	\$ 65,706
74. 3	C.S.	Prefabricated Pneumatic Lines, all types, all systems	\$ 12,833	\$ 38,499
75. 2	C.S.	Circuit Breakers, all types, all systems	\$ 1,833	\$ 3,666
76. 5	C.S.	Fuses, all types, all systems	\$ 3,250	\$ 16,250
77. 4	C.S.	Windshield Wiper and Washer Equipment, Complete	\$ 479	\$ 1,916
78. 2	EA	Emergency Ladder, complete	\$ 500	\$ 1,000
79. 2	EA	Evacuation Chair, complete	\$ 500	\$ 1,000
80. 5	EA	Fire Extinguisher, 10 lb	\$ 200	\$ 1,000
81. 5	EA	Fire Extinguisher, 5 lb	\$ 100	\$ 500
82. 2	C.S.	End Gates, complete	\$ 3,719	\$ 7,438
83. 3	EA	Each type formed Structural Carbody Components	\$ 126,088	\$ 378,264



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
84. 2	EA	Anti-climbers, each type	\$ 333	\$ 666
85. 5	C.S.	Crush Zone Elements, complete	\$ 833	\$ 4,165
86. 2	C.S.	All Truck Components, excluding Items Two (2) through Ten (10)	\$ 64,909	\$ 129,818
87. 2	C.S.	Exterior Feature Stripe Material	\$ 3,333	\$ 6,666
88. 3	C.S.	LED Lighting Conditioning Power Supplies, if required	\$ 60	\$ 180
89. 3	EA	Instructor's Seat, complete	\$ 1,292	\$ 3,876
90. 3	C.S.	Stretcher and Emergency Evacuation Chair	\$ 500	\$ 1,500
91. 2	C.S.	Ad Card Frames, complete	\$ 173	\$ 346
92. 1	C.S.	Cab Console, complete	\$ 21,016	\$ 21,016
93. 3	C.S.	Cab Console Equipment, including all Indicators, Switches, and Buttons Monitoring Panels, etc.	\$ 21,016	\$ 63,048
94. 4	C.S.	Hostler Panel and all Indicators, Switches and Buttons in the Non-Cab Car	\$ 11,895	\$ 47,580
95. 3	C.S.	Event Recorder System	\$ 5,822	\$ 17,466
96. 5	EA	ATP Receiver Coils	\$ 403	\$ 2,015



ITEM QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
97. 1	EA	Brake Assurance Accelerometers	Included in item 103	
98. 3	EA	ATP/ASR Unit Assemblies and Cases	\$ 20,501	\$ 61,503
99. 3	EA	ATP Modules	\$ 19,350	\$ 58,050
100. 3	EA	ASR Modules	\$ 19,350	\$ 58,050
101. 3	EA	ADU Units	\$ 2,555	\$ 7,665
102. 3	EA	ATP/ASR Conditioning Power Supplies, if separate	\$ N/A	\$ N/A
103. 6	C.S.	Complete Carsets of all Printed Circuit Boards and Assemblies for all Subsystems	\$ 104,097	\$ 624,582
104. 4	E.A.	Wireless LAN Radio and antenna, complete	\$ 10,231	\$ 40,924
105. 4	E.A.	Wireless WAN Gateway and antenna, complete	Included in item 107	
106. 4	E.A.	GPS and antenna, complete	\$ 512	\$ 2,048
107. 1	E.A.	Wayside WLAN and antenna, complete	\$ 10,300	\$ 10,300
<b>TOTAL AMOUNT</b>			<b>\$ 7,541,110</b>	
			(Carry forward to Page B-9, Item No. Option I)	

Note: The Authority reserves the right to determine the final mix and quantity per line item following confirmation of design.

NOTE: THE AUTHORITY RESERVES THE RIGHT TO PURCHASE SPARE PARTS EITHER AS A TOTAL PACKAGE OR ON AN INDIVIDUAL-ITEM BASIS, AND/OR TO INCREASE OR TO DECREASE QUANTITIES LISTED, WHICHEVER IS IN THE BEST INTEREST OF THE AUTHORITY.



SECTION B  
PART A PRICE PROPOSAL

OPTION II INTENTIONALLY OMITTED

A handwritten signature consisting of stylized initials and a surname.

**SECTION B**  
**PART A PRICE PROPOSAL**

**OPTION III** INTENTIONALLY OMITTED



**SECTION B**  
**PART A PRICE PROPOSAL**

**OPTION IV** Additional Capital Spare Parts

The Authority reserves the right within five (5) years of the Notice to Proceed to purchase additional Capital Spare Parts in an amount up to fifty percent (50%) of the quantities of any items listed in Section B Part A Capital Spare Parts – Base Contract. For additional Capital Spare Parts purchased through the end of thirty-six (36) months following the Notice to Proceed, they shall be offered at the same unit prices offered for Capital Spare Parts for the Base Contract. For additional Capital Spare Parts purchased thereafter, prices shall be subject to escalation pursuant to Section C2.02.

Note: The prices to be paid for additional Option Spares which the Authority may elect to purchase under Option IV will not be greater than the Offeror's quoted price of the Base Proposal.

**TOTAL AMOUNT \$14,372,328**

(Carried forward to page B-9  
Item No. Option IV)



**SECTION B**  
**PART A PRICE PROPOSAL**

**OPTION V****CCTV Operator Display Screens**

The Authority reserves the right within three (3) months of the Notice to Proceed to exercise an option for the supply and installation of 113 CCTV Operator Display Screens as described in T 5.03.11, as well as manuals, training, special tools, diagnostic equipment and other items as applicable. The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.

**\*OPTION V(a)**

If Option I is exercised, the Authority reserves the right to increase the quantity of all of the above by 29 units at the same unit price. The unit and total price for Option V(a) shall not include a ten percent (10%) allowance for associated Capital Spare Parts.

Quantity	Unit Price	10% Allowance for Spares	Extended Price
113 Units	\$ 2,112	\$21,698	\$238,684 (Carry forward to page B-10, Item No. Option V)
*29 Units	\$1,920		\$55,684 (Carry forward to page B-10, Item No. Option V(a))



**SECTION B**  
**PART A PRICE PROPOSAL**

**OPTION VI****Gap Mitigation Devices**

The Authority reserves the right within three (3) months of the Notice to Proceed to exercise an option for the supply and installation of 226 Gap Mitigation Devices as described in T 6.02.10, as well as manuals, training, special tools, diagnostic equipment and other items as applicable. The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.

**\*OPTION VI(a)** If Option I is exercised, the Authority reserves the right to increase the quantity of all of the above by 58 units at the same unit price. The unit and total price for Option VI(a) shall not include a ten percent (10%) allowance for associated Capital Spare Parts.

Quantity	Unit Price	10% Allowance for Spares	Extended Price
226 Units	\$11,781	\$242,046	\$2,662,506 (Carry forward to page B-11, Item No. Option VI)
*58 Units	\$10,710		\$621,180 (Carry forward to page B-11, Item No. Option VI(a))



**SECTION B**  
**PART A PRICE PROPOSAL**

**OPTION VII** Internal and External Passenger Door Open Pushbuttons

The Authority reserves the right within three (3) months of the Notice to Proceed to exercise an option for the supply and installation of 1,504 sets of Internal and External Passenger Door Open Pushbuttons as described in T 6.03.03, as well as manuals, training, special tools, and other items as applicable. The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.

**\*OPTION VII(a)** If Option I is exercised, the Authority reserves the right to increase the quantity of all of the above by 464 sets at the same price. The unit and total price for Option VII(a) shall not include a ten percent (10%) allowance for associated Capital Spare Parts.

Quantity	Unit Price	10% Allowance for Spares	Extended Price
1,504 Sets	\$352	\$48,107	\$529,181 (Carry forward to page B-12, Item No. Option VII)
*464 Sets	\$320		\$148,416 (Carry forward to page B-12, Item No. Option VII(a))



**SECTION B**  
**PART A PRICE PROPOSAL**

**OPTION VIII**    **LCD Monitors**

The Authority reserves the right within three (3) months of the Notice to Proceed to exercise an option for the supply and installation of 752 LCD Monitors as described in T 13.02.15, as well as manuals, training, special tools, diagnostic equipment and other items as applicable. The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.

**\*OPTION VIII(a)** If Option I is exercised, the Authority reserves the right to increase the quantity of all of the above by 232 units at the same unit price. The unit and total price for Option VIII(a) shall not include a ten percent (10%) allowance for associated Capital Spare Parts.

Quantity	Unit Price	10% Allowance for Spares	Extended Price
752 Units	\$3,017	\$206,270	\$2,268,968 (Carry forward to page B-13, Item No. Option VIII)
*232 Units	\$2,743		\$636,364 (Carry forward to page B-13, Item No. Option VIII(a))



**SECTION B**  
**PART A PRICE PROPOSAL**

**OPTION IX****Active Route Maps**

The Authority reserves the right within three (3) months of the Notice to Proceed to exercise an option for the supply and installation of 752 Active Route Maps as described in T 13.02.16, as well as manuals, training, special tools, diagnostic equipment and other items as applicable. The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.

**\*OPTION IX(a)** If Option I is exercised, the Authority reserves the right to increase the quantity of all of the above by 232 units at the same unit price. The unit and total price for Option IX(a) shall not include a ten percent (10%) allowance for associated Capital Spare Parts.

Quantity	Unit Price	10% Allowance for Spares	Extended Price
752 Units	\$3,017	\$206,270	\$2,268,968 (Carry forward to page B-14, Item No. Option IX)
*232 Units	\$2,743		\$636,364 (Carry forward to page B-14, Item No. Option IX(a))



**SECTION B**  
**PART A PRICE PROPOSAL**

**OPTION X****Automatic Passenger Counting System**

The Authority reserves the right within three (3) months of the Notice to Proceed to exercise an option for the supply and installation of 1,504 Automatic Passenger Counting Systems as described in T 13.02.22, as well as manuals, training, special tools, diagnostic equipment and other items as applicable. The unit and total price shall include an allowance for associated Capital Spare Parts in the form of an additional ten percent (10%) of the base unit price. In order to avoid any ambiguity, Offerors shall add to the base unit price for this option a sum representing ten percent (10%) of the base unit price.

**\*OPTION X(a)** If Option I is exercised, the Authority reserves the right to increase the quantity of all of the above by 464 units at the same unit price. The unit and total price for Option X(a) shall not include a ten percent (10%) allowance for associated Capital Spare Parts.

Quantity	Unit Price	10% Allowance for Spares	Extended Price
1,504 Units	\$1,022	\$139,729	\$1,537,020 (Carry forward to page B-15, Item No. Option X)
*464 Units	\$929		\$431,079 (Carry forward to page B-15, Item No. Option X(a))



**SECTION B**  
**PART A PRICE PROPOSAL**

**OPTION XI**      Training Simulator

The Authority reserves the right within twenty-four (24) months of the Notice to Proceed to exercise an option for the supply of one (1) Training Simulator as described in T 22.02.08, as well as manuals, training, and other items as applicable.

Quantity	Unit Price	Extended Price
1 Unit	\$2,126,483	\$2,126,483 (Carry forward to page B-15, Item No. Option XI)

